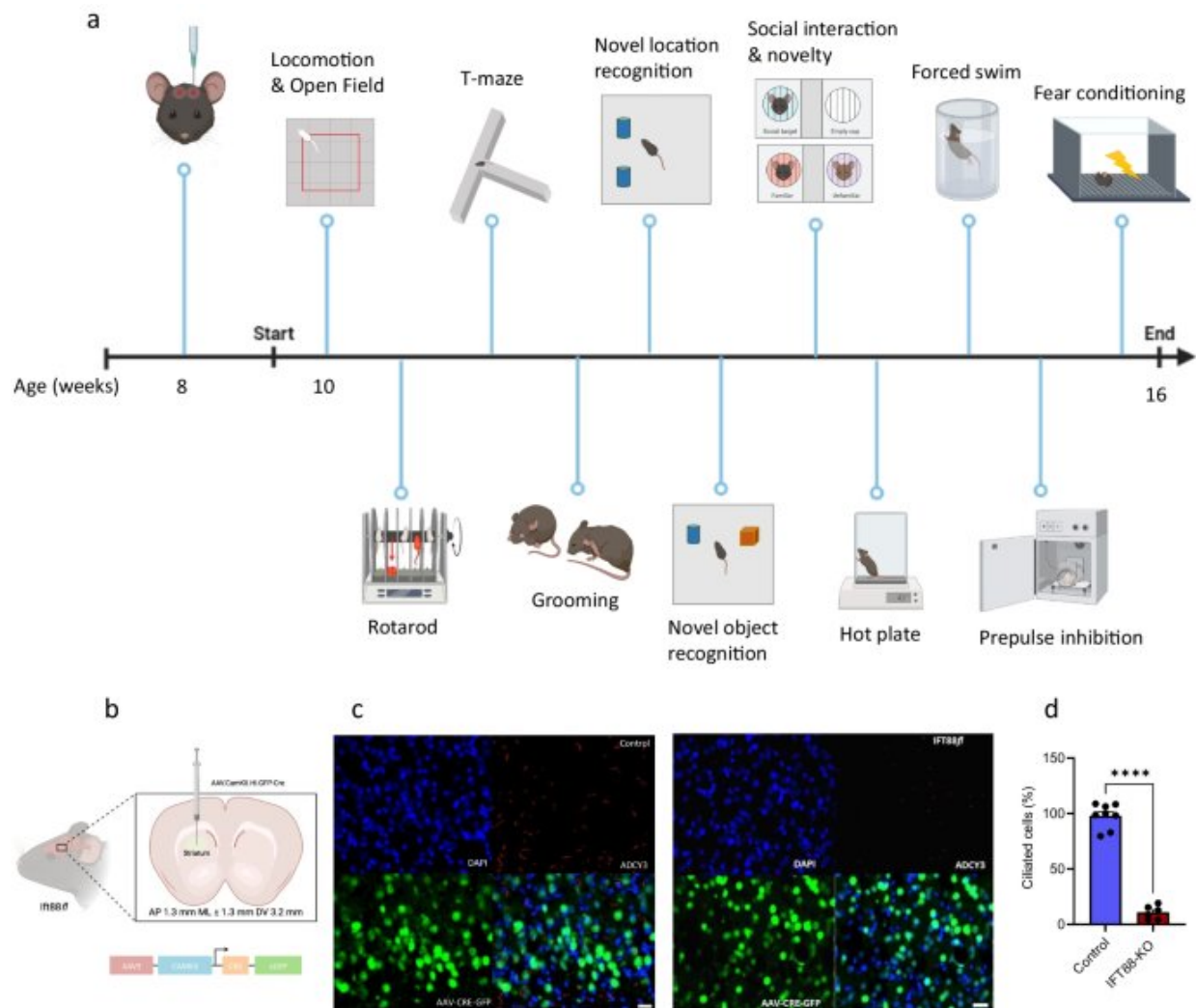


Researchers discover crucial role of brain's striatum cilia in time perception

November 30 2022



Selective cilia deletion in the striatum and confirmation of mice's normal gross growth and well-being. a Schematic view of experimental design and behavior assays performed and their sequence. Diagram was created with the

BioRender.com webpage. b Schematic showing bilateral viral injection into the dorsal striatum. c and d Verification of cilia removal in ciliated neurons of the striatum using immunostaining of ADCY3. Scale bar = 10 μ m. c Representative images of ADCY3 immunostaining showing the intact cilia in the control mice and the conditional ablation of cilia in the dorsal striatum neurons of *Ift88^{fl}* mice (counterstained with DAPI, blue); d Quantification of the ciliated cells in the rostral-dorsal striatum (n = 8 control, 6 IFT88-KO). Unpaired t-test (t = 17.26, P is less than 0.0001) ****P

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